

# MINUTES

## Belle Isle Park Advisory Committee Meeting

Thursday, November 19, 2020

Location: Teleconference

### **Meeting called to order at 9:00 a.m.**

A Quorum was established at 10:25 a.m.

### **PRESENT FOR BIPAC**

Attending remotely:

Michele Hodges, Chair; Grosse Pointe Park, Michigan

Lonnie Peak; Sherwood Forest, Detroit, Michigan

Michael Curis; Detroit, Michigan

Sommer Woods; Detroit, Michigan

### **EXCUSED ABSCENCES**

Bud Denker

Brad Dick

### **UNEXCUSED ABSCENCES**

Bryan Barnhill

### **Approval of excused absences:**

Moved by: Sommer Woods

Seconded by: Michael Curis

### **DNR STAFF PRESENT**

Ron Olson, Chief, PRD

Karis Floyd

Scott Pratt

Mike Terrell

Darren Swan

Todd Szyska

Darlisa Rickman

Amanda Treadwell

Mia Moore

Kimberley Hicks

Barbara Graves

### **OTHERS PRESENT**

Deanna Apps, Detroit Region, ACOE

Amy Greene, Belle Isle Nature Center

Ayo Thomas, Belle Isle Conservancy  
Aly Melnik, Belle Isle Conservancy  
Jennifer Johnson, MSP  
Lance Couturier, MSP  
Bill Shreck, MDOT

## **REVIEW AND APPROVAL OF MINUTES**

### **Approval of Minutes for October 15, 2020:**

Moved by: Michael Curis  
Seconded by: Lonnie Peek

**Michele Hodges** welcomed everyone and started out the meeting with some insight on what makes Belle Isle special and mentioned the beautiful 263-acre Flatwood Mesick forest. She has had a few people reach out to her recently to say they have spotted Osprey on the island. Osprey are a relative of the eagle and who, along with over 200 other species, use Belle Isle as a stopover on their migration pathways.

## **GENERAL UPDATES**

### **Great Lakes Water Levels - Deanna Apps, Hydraulics and Hydrology Office, Detroit District, Corps of Engineers**

Ms. Apps gave an overview of the Great Lakes basin hydrology and the six-month forecast. Presentation attached. Lake level reports can be found at <https://www.lre.usace.army.mil/Missions/Great-Lakes-Information/>  
Fact and contact information can be found at <https://www.lre.usace.army.mil/About/Great-Lakes-High-Water/>

Questions included if global warming affected water levels and if other agencies are using this data to make decisions on infrastructure investments. Ms. Apps replied that there are a variety of factors that affect the levels, and that a lot of counties, through Emergency Management, are under technical or direct assistance and are continually preparing for high water.

**Chief Olson** said they have been dealing with high water issues throughout the system and have been working with the Waterways Commission and harbor communities around the state. Every community around the Great Lakes is very mindful of what was just presented. Millions of dollars have been spent armoring the shorelines, among other things. Hopefully the peak in the cycles are going down.

### **Ron Olson, Chief, DNR-PRD**

Recent public health orders have increased regulations due to the COVID situation. For the next three weeks there will be various controls with gatherings. Parks are still considered an essential service and will continue to operate as they have, but with tightened regulations for gatherings. Restart plans have been developed for reopening of the Conservatory and other facilities, but they are currently on hold. Staff continue working, following protocols such as social distancing and wearing masks, and we are appreciative of what they do.

Griselda Trevino, the new Diversity, Equity and Inclusion coordinator for PRD, will be introduced at a future meeting.

We did not sustain any budget reductions in the fiscal year 2021 budget, and we are now working on planning for fiscal year 2022.

**Chair Hodges** asked if it is expected that we will experience COVID impacts in 2022. **Chief Olson** said visitations, camping and lodging were up over 25% this past season, and Belle Isle was at 4.4 million visitors. It was challenging as we started later than normal and had 20% less staff, but the good news is visitors came out. We have experienced an increase in new users. An example of this is a record setting number of rescues at the Porcupine Mountains due to the increased number of novice hikers. As we are a revenue-generated system, estimates are being watched.

The new partnership between the Detroit Riverfront Conservancy (DRC) and Huron-Clinton Metroparks gives us an opportunity to collaborate. We will see about having them attend a meeting in the future.

**Karis Floyd, Park Manager and Darren Swan, Park Supervisor; Belle Isle and Milliken**

They thank MDOT for the paving in the park around the athletic complex and the woods. Awaiting approval to offer jobs to two people for ranger positions. The rally that occurred on Belle Isle with the former president and president-elect was successful. The casino and Bus Stop 7 restrooms are open, but other buildings are winterized because they have no heat.

They also want to thank **Gary Williams** for assisting with the Healthy Kidz program. Gary said he came out of retirement to be involved again. The kids accomplished a great number of things such as painting, cutting back brush, removing graffiti and repairing picnic tables. They also learned about winterizing pipes, carpentry and coal bin projects to protect trees and the environment. This group of 15 – 20 teenagers learned planning skills and working together as a team. He hopes to work with the group in the near future and thanks the staff of Belle Isle who were most helpful and engaged.

**Chair Hodges** thanked Gary for all his work he has done, and that it is a pleasure having him involved. **Chief Olson** said we are fortunate to have Gary and the kids.

**Darren Swan** reported that tree cleanup is being done after the recent windstorm caused a few trees to come down. They are working on the tree assessment in the park area. Afterwards they will review their findings with the DNR Stewardship unit and then work on a maintenance plan. Ten to twelve hot coal bins were installed and more to be done in the spring. He is working on a committee to develop education signage about the coal bins to curb dumping at the base of the trees. The kayak launch has been removed and will be reinstalled in the spring. Hopefully the golf range will be fully operational next season. Hype Athletics is a dedicated vendor and are committed to making the facilities the best they can be. Water will be shut down to the island for maintenance for one day. The information will be posted. Additional road communication boards will be purchased. The Happy Little Trees program planted Oaks north of the

Conservatory in addition to the ones that were planted last September. The position for a Lead Worker was just posted and they are hopeful it will be filled soon.

**Chair Hodges** thanks the team for making the rally possible for President Obama, President-elect Biden and Stevie Wonder. She reached out to the Biden campaign to see if it is possible to get a permanent marker on the island commemorating the event. **Reverend Peek** said he had the honor of attending the rally and it was historic and a lot of fun.

**Amanda Treadwell, PRD Planner, Southeast Michigan**, gave an infrastructure update (presentation attached).

#### **Lt. Todd Szyska, DNR Law Enforcement**

Lt. Szyska thanks the park staff and MSP for working together on the president rally as it was a lot to gather in short order. It turned out to be a good event, with not many incidences. They have winter staffing levels for the island with 24-hour coverage. The second annual Stuff the Truck is starting now through December. Collection bins will be around the island. MSP is also having their Stuff the Blue Goose. Details can be found on their web page.

#### **Belle Isle Conservancy Update, Michele Hodges**

Michele thanks **Sommer Woods** for her support with the Polish the Jewel luncheon that was a wonderful success. Belle Isle is now part of the Parks RX program, which demonstrates the significant of parks to the health program. They launched a new line of jewelry with Rebel Nell, using gold leaf paint from the aquarium. The Rebel Nell collection will be available to the public again on 12/1 [www.rebelnell.com](http://www.rebelnell.com). They are proud of the fairy door program as they are truly enchanting, and the community has responded wonderfully (check them out on the BIC website). They are working to recalibrate the Holiday Stroll. Ayo has worked hard on this and it will launch in December. As part of the election process, Proposal 1 was presented, and they are pleased to report that it has passed. The Meijer store is actively in construction, located on Jefferson. The Fall fundraising appeal is underway.

#### **Island Stakeholder Update, Aly Melnik, Volunteer Coordinator, BIC**

The stakeholders consist of the boathouse, the Yacht Club, Dossin Museum, Aquarium, Conservatory, Nature Center, DNR and MDOT. The group meets quarterly. The boathouse has kicked off efforts to their new master plan. The Yacht Club is slowing down but were able to weather the worst of the storm this summer. The Conservatory has three employees still working and they are doing an amazing job. The Nature Center reopened in October by invite only and are now in the process of closing for the winter. She has not heard of the Dossin's new plans. They were open on the weekends and were accepting applications. MDOT has finished paving Central Avenue and Oakway. The aquarium is currently closed. New glass is being installed for the tanks inside and some touch-ups are being done on the interior.

#### **PUBLIC COMMENT**

**Michael Betzold** submitted and read the following statement:

Last month, Michael Montri told this committee that adding an extra weekend of racing next summer would “ensure that the Grand Prix will once again provide its full beneficial impact to the State of Michigan, the City of Detroit and to Belle Isle Park in 2021.” Limiting access to Belle Isle for another weekend of a billionaire’s private car race provides exactly the opposite of a “beneficial impact.” During this pandemic, the island has provided a crucial refuge and its beauty and peace a demonstrably critical boost to park users’ physical and mental health. With its barriers, noise, and commercial apparatus, the Grand Prix robs these life-sustaining park assets, and should be discontinued, not expanded.

Montri listed the economic benefits of the Grand Prix as including its \$450,000 annual fee to the MDNR (a paltry sum for two months of occupation of a public park), the money raised by the Grand Prixmiere (which helps pay the salary of this committee’s chair), and the \$13.5 million in island improvements (which have mostly been used for the casino and fountain as race headquarters and scenic TV backdrop).

Without any evidence, Montri calls the race “essential for local restaurants, hotels and businesses to ...begin our economic recovery” and asserts “Detroit needs large annual events to ... demonstrate to the world that we are open for business.” He contends that, somehow, TV coverage of the race is “invaluable for our entire region.”

On the contrary, what’s really invaluable is uninterrupted access to Belle Isle for park users year round as shelter from economic and physical storms.

The Grand Prix has negligible proven lasting economic impact—but demonstrable devastating impact on citizens' health and welfare.

The only meaningful beneficial impact Roger Penske could have on Detroit is to donate substantial reparations for the incalculable damage he’s done each year to Belle Isle. Rather than follow his dictates, the DNR should heed its mission and get his race off the island as soon as possible.

### **End of public comment**

**Sommer Woods** asked if there is a status on the concessionaire evaluation assessment that we were supposed to have analyzed. **Chief Olson** said she will be at the December meeting. She is preparing a summary now and it will be provided in advance of the next meeting.

**Reverend Peek** said we continue to move forward despite adversity. He wants to thank staff and Michele for keeping things moving.

A member of the public asked if there will be signage to explain the various lines on the road through the woods. It is not obvious that there is a walking path, bike lane, and one-way car lane. Amanda Treadwell responded that additional road markings will be implemented after the road work required for the Flatwoods is complete. This work is part of Anglin's contract.

**Chair Hodges** thanked everyone and said it is an honor to serve on the committee and she wished everyone a wonderful holiday.

Meeting concluded: 10:51 a.m.

**NEXT REGULAR MEETING:  
December 17, 2020**

Approved: \_\_\_\_\_  
Michele Hodges Ronald A. Olson, Chief

Date: \_\_\_\_\_

DRAFT

# GREAT LAKES WATER LEVELS

Deanna Apps

Hydraulics and Hydrology Office  
Detroit District, Corps of Engineers  
19 November 2020



US Army Corps  
of Engineers®

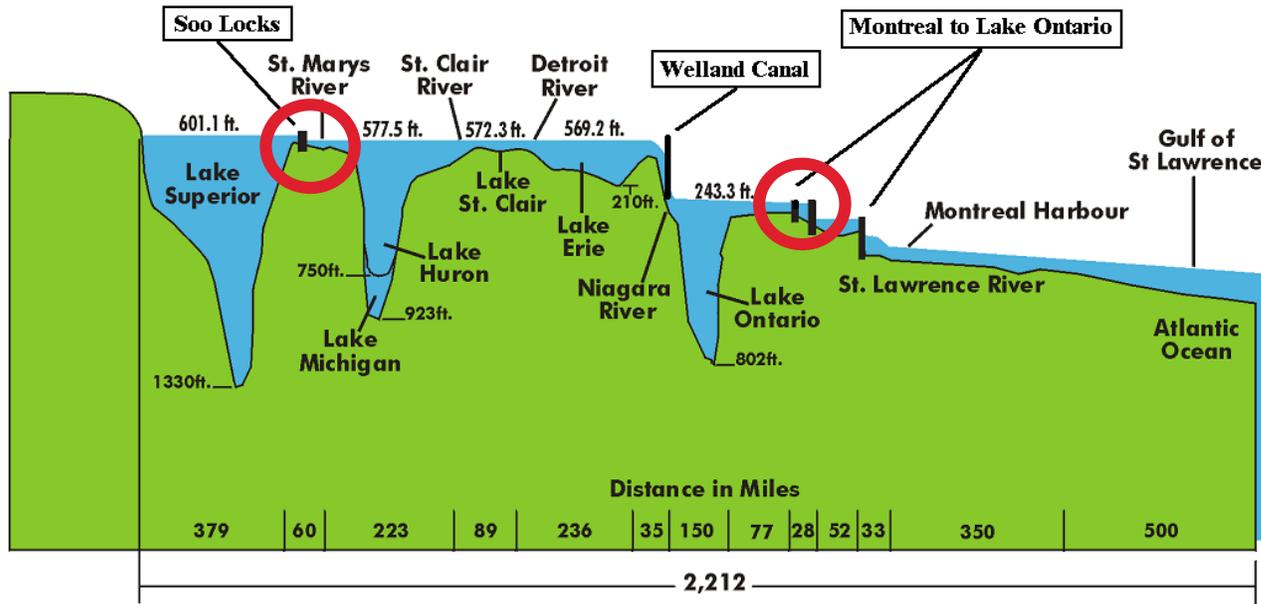


# MONITORING GREAT LAKES WATER LEVELS



## The Great Lakes Basin

- 14,000 miles of shoreline
- 95,000 square miles of water
- 200,000 square miles of land
- 8 States & 2 Provinces



 Outflow regulation

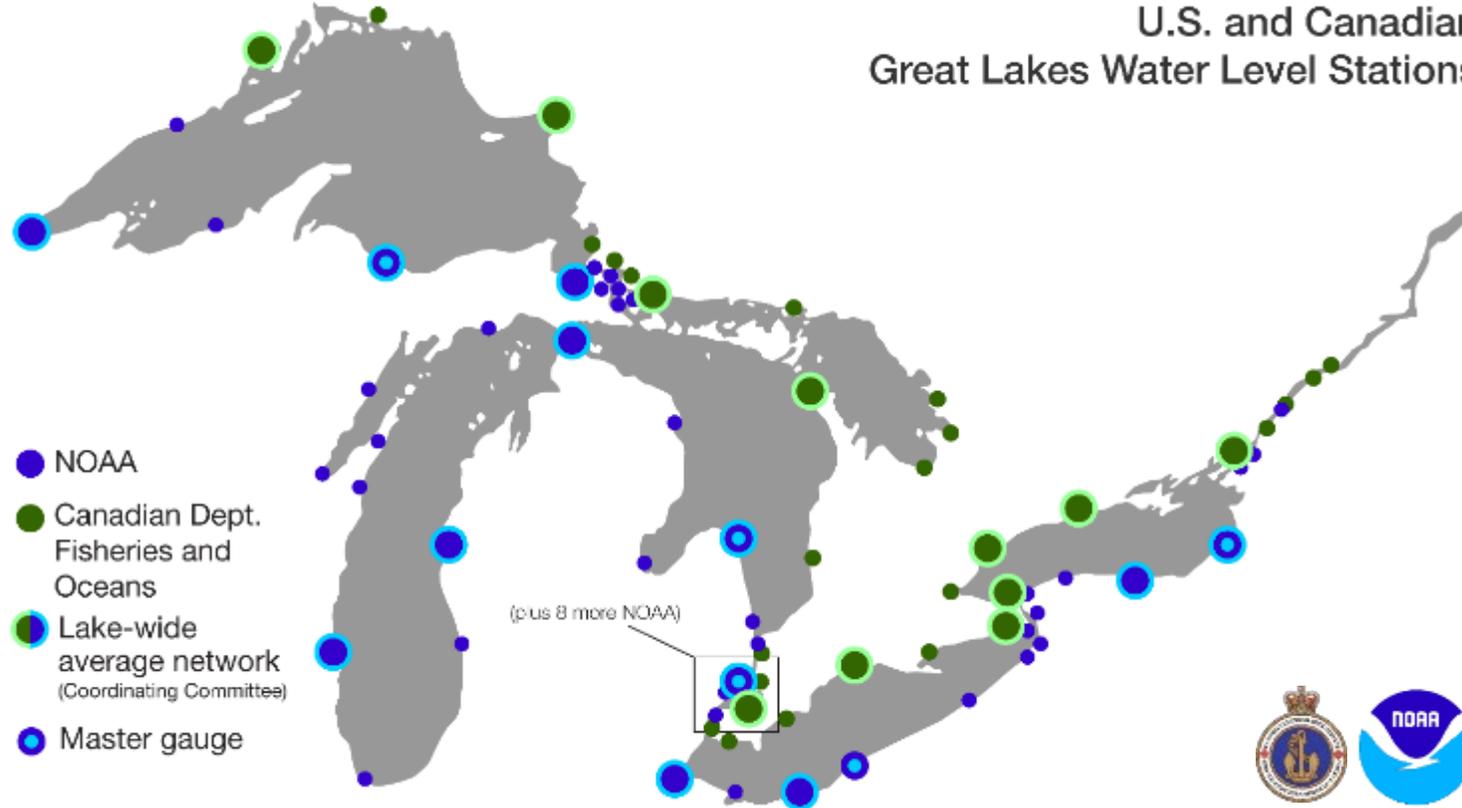




# MONITORING GREAT LAKES WATER LEVELS



U.S. and Canadian  
Great Lakes Water Level Stations



## Daily Average Water Levels Based on Lake-Wide Average Network

- **Lake Superior:** Duluth, Marquette, Pt. Iroquois, Thunder Bay, Michipicoten
- **Lakes Michigan-Huron:** Harbor Beach, Ludington, Mackinaw City, Milwaukee, Tobermory, Thessalon
- **Lake St. Clair:** St. Clair Shores, Belle River
- **Lake Erie:** Toledo, Cleveland, Port Stanley, Port Colborne
- **Lake Ontario:** Oswego, Rochester, Toronto, Kingston, Port Weller, Cobourg



# MONITORING GREAT LAKES WATER LEVELS



## Current Daily Water Levels

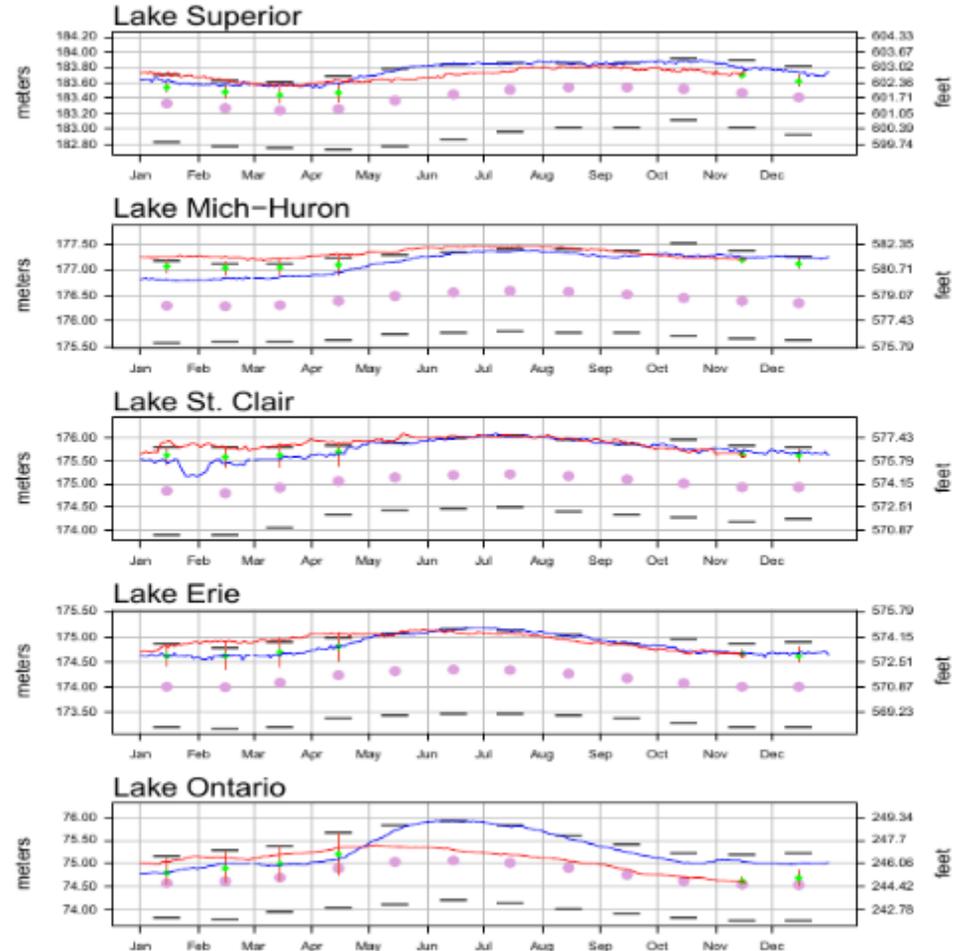


### Great Lakes Water Levels (Feet)



### Daily Great Lakes Water Levels

— 2020  
— 2019  
▲ Coordinated Forecast  
● LTA Monthly Mean  
— Record High/Low Monthly Mean



Lakewide average levels are based on a network of water level gages located around the lakes. LTA and record levels are computed from a period of record of 1918 to 2019. Elevations are referenced to the International Great Lakes Datum (1985). Updated 2020-11-18

**Great Lakes Water Levels**  
 The United States Army Corps of Engineers collects and disseminates this water level data in cooperation with NOAA and the Canadian Hydrographic Service. All data are provisional and are referenced to IGLD 1985. Blanks indicate data that are missing or not yet available.

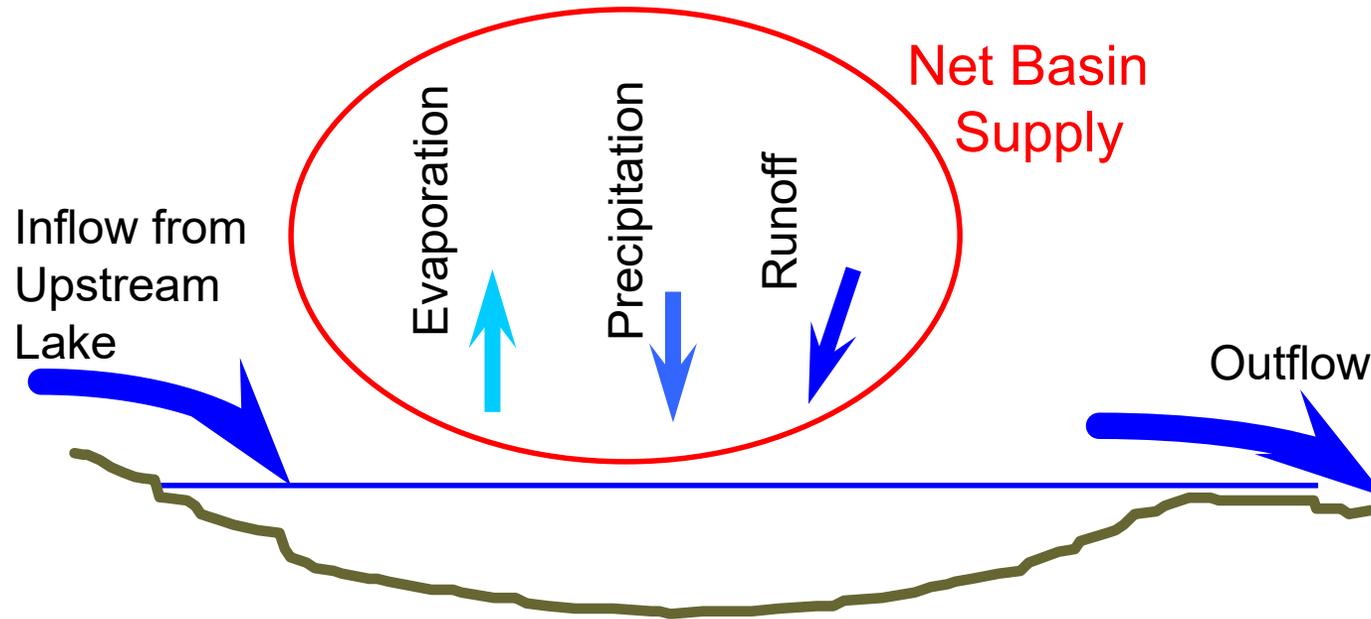
Date	Superior*	Michigan Huron*	St. Clair*	Erie*	Ontario*
	Daily Mean	Daily Mean	Daily Mean	Daily Mean	Adj. Daily Mean
01-NOV-2020	602.87	581.38	576.28	573.00	244.89
02-NOV-2020	602.80	581.44	576.28	573.00	244.82
03-NOV-2020	602.72	581.45	576.30	573.12	244.82
04-NOV-2020	602.73	581.42	576.31	573.08	244.82
05-NOV-2020	602.74	581.42	576.30	573.08	244.82
06-NOV-2020	602.71	581.42	576.31	573.08	244.80
07-NOV-2020	602.72	581.42	576.32	573.06	244.79
08-NOV-2020	602.71	581.41	576.34	573.08	244.78
09-NOV-2020	602.68	581.39	576.34	573.08	244.77
10-NOV-2020	602.80	581.40	576.30	573.08	244.76
11-NOV-2020	602.79	581.41	576.29	573.04	244.77
12-NOV-2020	602.74	581.44	576.35	573.08	244.76
13-NOV-2020	602.78	581.36	576.32	573.01	244.75
14-NOV-2020	602.69	581.40	576.32	573.08	244.74
15-NOV-2020	602.77	581.40	576.06	572.80	244.76
16-NOV-2020	602.87	581.40	576.04	572.90	244.69
17-NOV-2020	602.82	581.37	576.20	572.97	244.70
Mean:	602.76	581.41	576.27	573.03	244.78

November Statistics	Historic Water Levels				
	Superior	Michigan Huron	St. Clair	Erie	Ontario
Avg Last Month	602.89	581.54	576.57	573.22	245.09
Avg Last Year	603.04	581.58	576.48	573.08	246.18
Minimum	600.43 (1925)	576.28 (1964)	571.46 (1934)	568.24 (1934)	241.96 (1934)
Maximum	603.31 (1985)	581.96 (1986)	576.84 (1986)	573.65 (1986)	246.65 (1945)
Long Term Avg**	601.94	578.71	573.92	570.9	244.55

\* Mean levels are calculated by averaging the best available gage data at report generation and are subject to change.  
 \*\* Period of Record 1918 - 2019

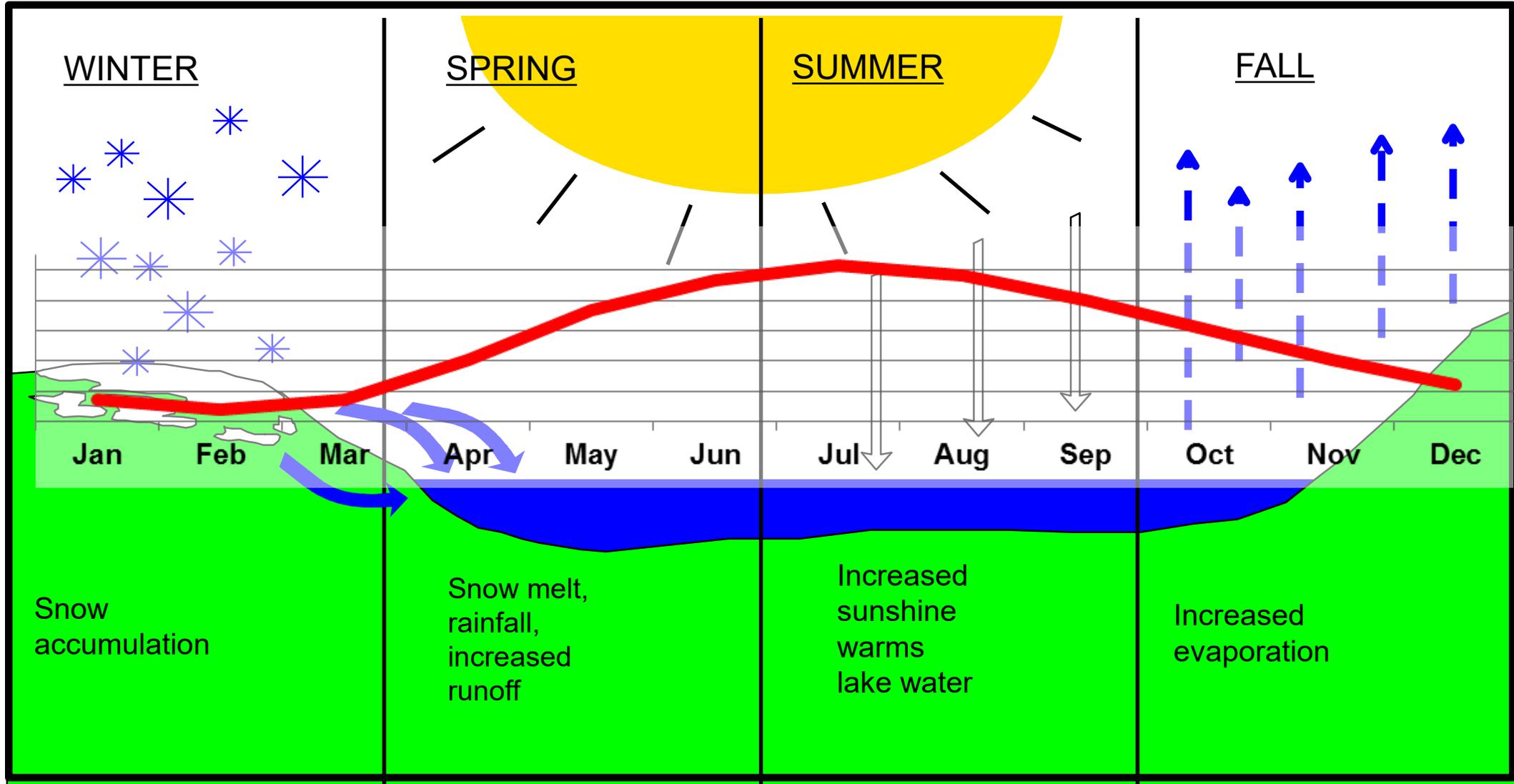


# FACTORS IMPACTING WATER LEVELS





# ANNUAL WATER LEVELS AND THE HYDROLOGIC CYCLE



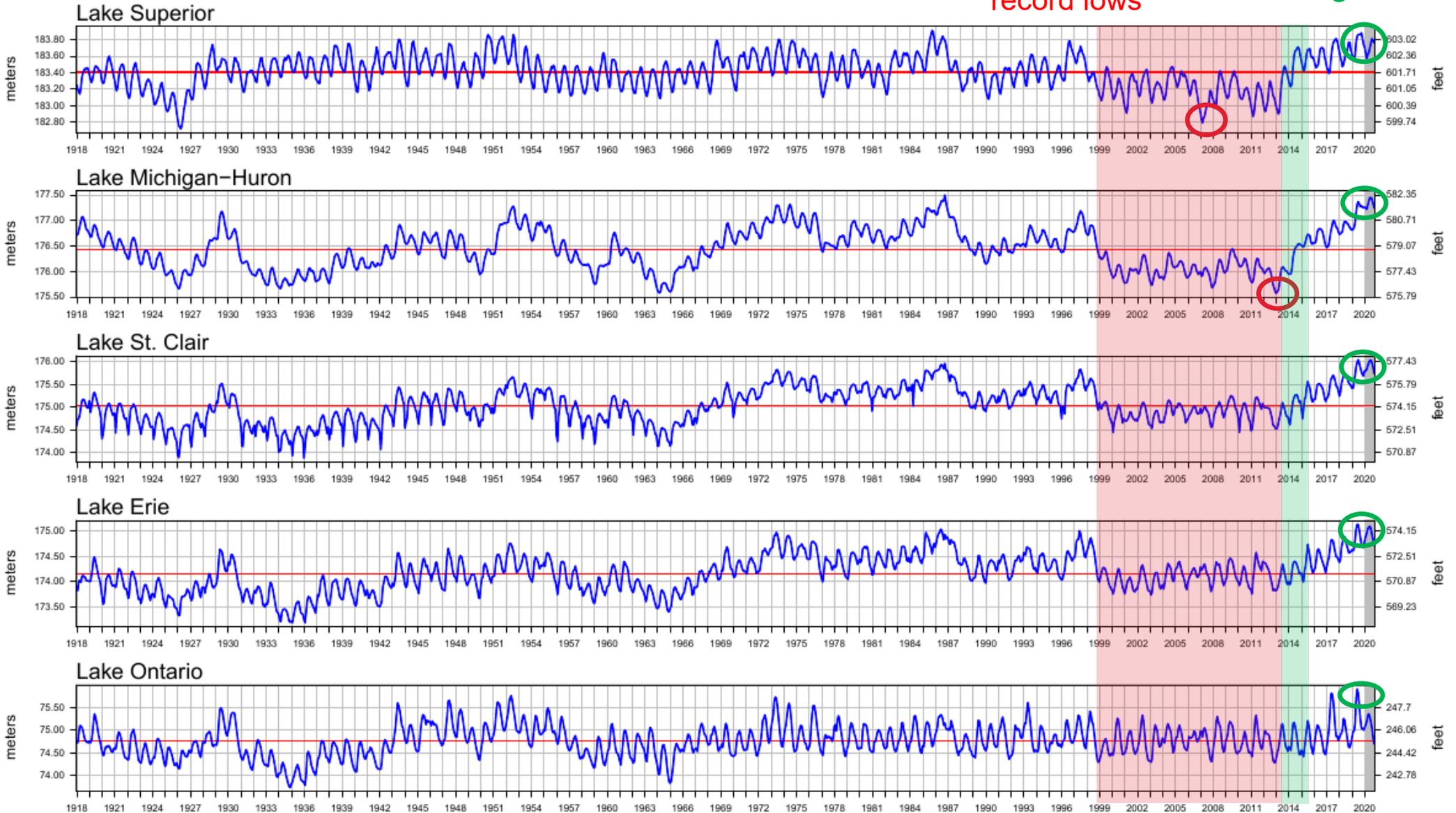


# Great Lakes Water Levels (1918–2020)

— Monthly Mean Level    — Long Term Average Annual

Decade plus of low water with record lows

Record rise and record highs



The monthly average levels are based on a network of water level gages located around the lakes. Elevations are referenced to the International Great Lakes Datum (1985).

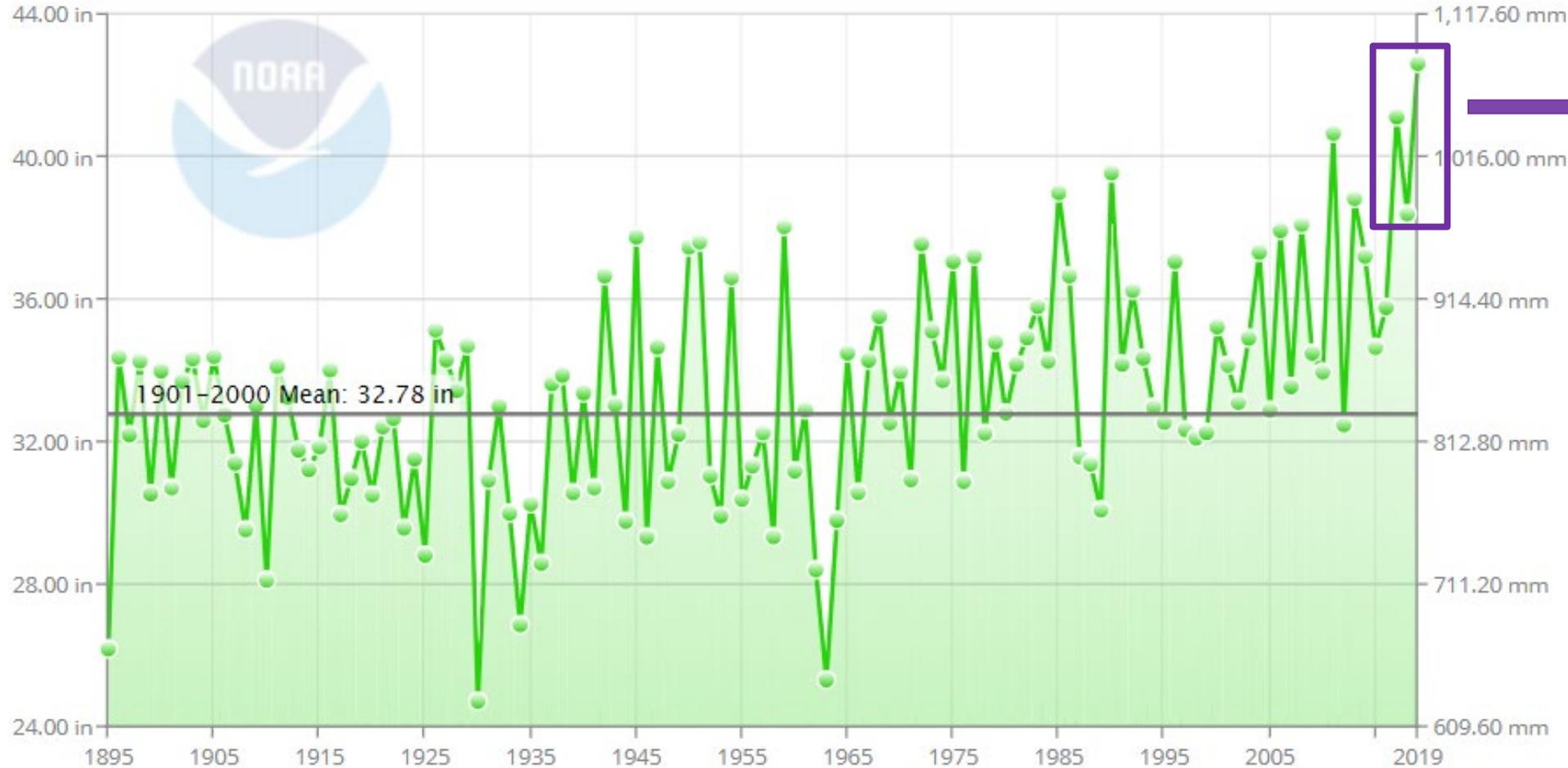
Water levels have been coordinated through 2019. Values highlighted in gray are provisional.



# WHY ARE LEVELS SO HIGH? – WET PATTERN



Great Lakes Basin Precipitation  
January–December



Last 3 years (2017-2019), exceptionally wet for the Great Lakes Basin.

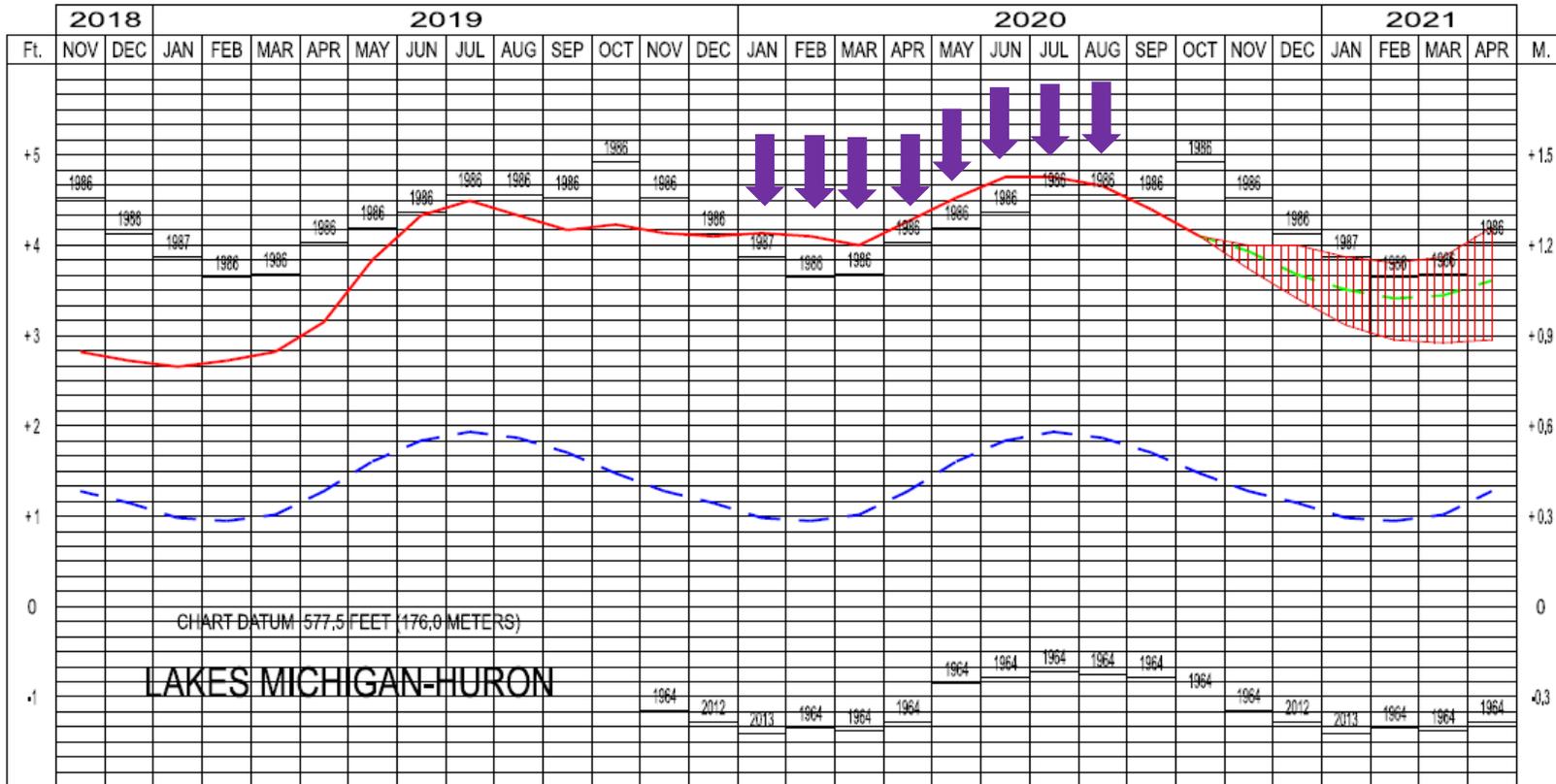




# 6-MONTH FORECAST (NOVEMBER-APRIL)



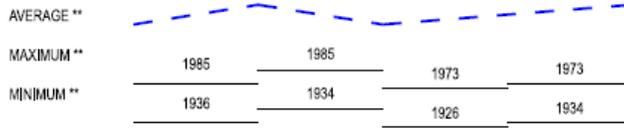
### LAKES MICHIGAN-HURON WATER LEVELS - NOVEMBER 2020



↓ • 2020 Provisional Record

## Projected Levels (dashed green line):

- In period of seasonal decline
- October 2020 level was 2 inches below the October 2019 level.
- Forecast to be 6 to 8 inches below record high levels over the next 6 months.



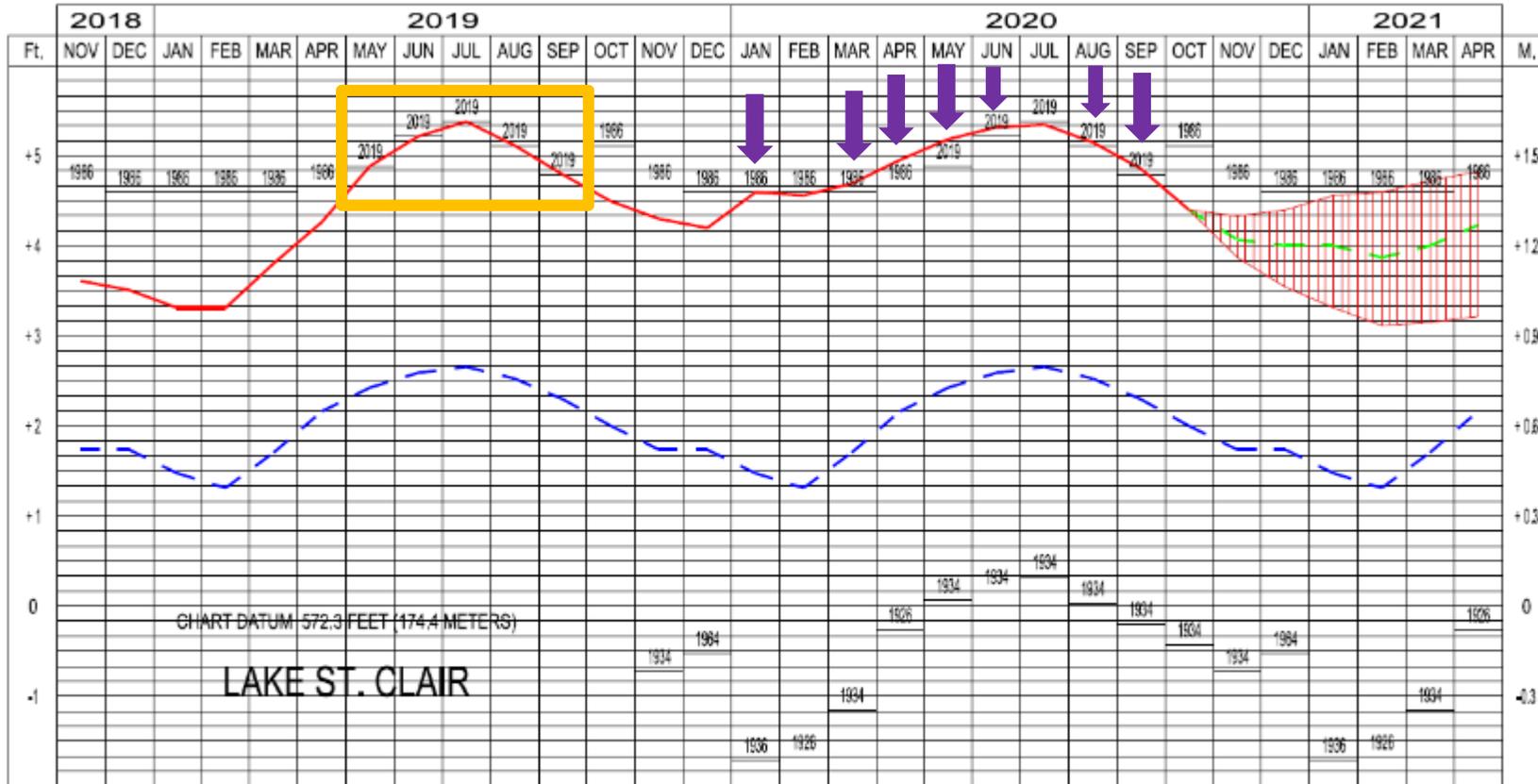
\*\* Average, Maximum and Minimum for period 1918-2019



# 6-MONTH FORECAST (NOVEMBER-APRIL)



### LAKE ST. CLAIR WATER LEVELS - NOVEMBER 2020



• 2019 Records



• 2020 Provisional Record

## Projected Levels (dashed green line):

- In period of seasonal decline
- October 2020 level was an inch below the October 2019 level.
- Forecast to be about 7 to 9 inches below record high levels over the next 6 months.

### LEGEND

LAKE LEVELS

RECORDED

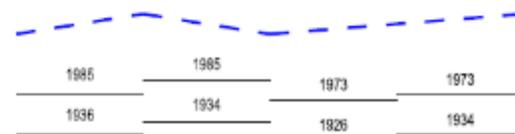


PROJECTED

AVERAGE \*\*

MAXIMUM \*\*

MINIMUM \*\*



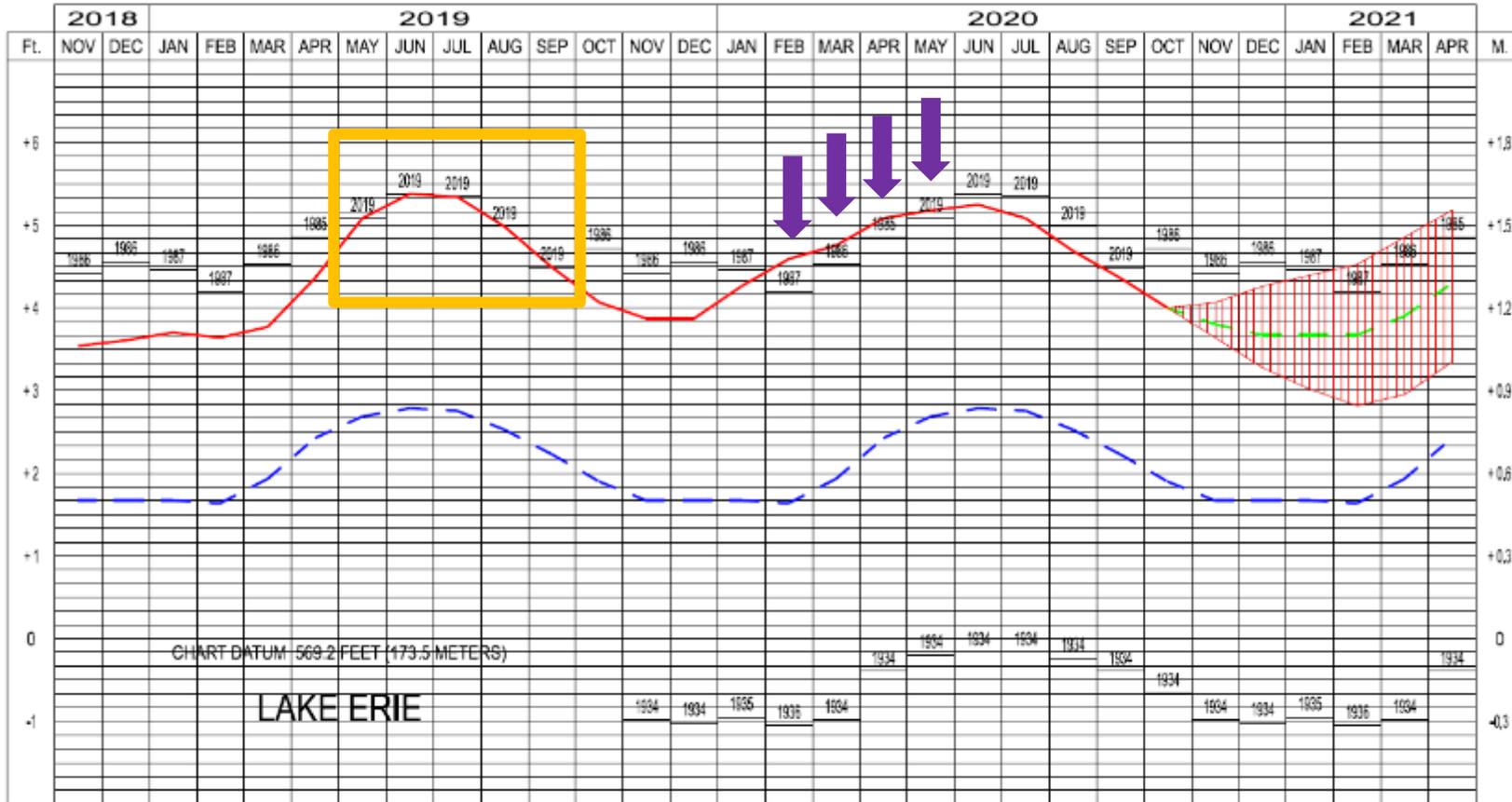
\*\* Average, Maximum and Minimum for period 1918-2019



# 6-MONTH FORECAST (NOVEMBER-APRIL)



### LAKE ERIE WATER LEVELS - NOVEMBER 2020



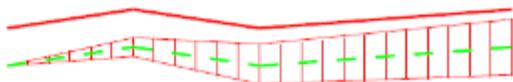
- 2019 Records
- 2020 Provisional Record

### Projected Levels (dashed green line):

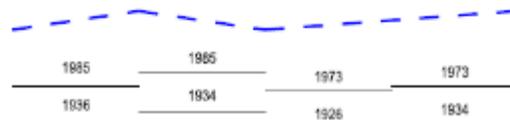
- In period of seasonal decline
- October 2020 level was 1 inch below the October 2019 level.
- Forecast to be 7 to 11 inches below record high levels over the next 6 months.

#### LEGEND LAKE LEVELS

RECORDED  
PROJECTED



AVERAGE \*\*  
MAXIMUM \*\*  
MINIMUM \*\*



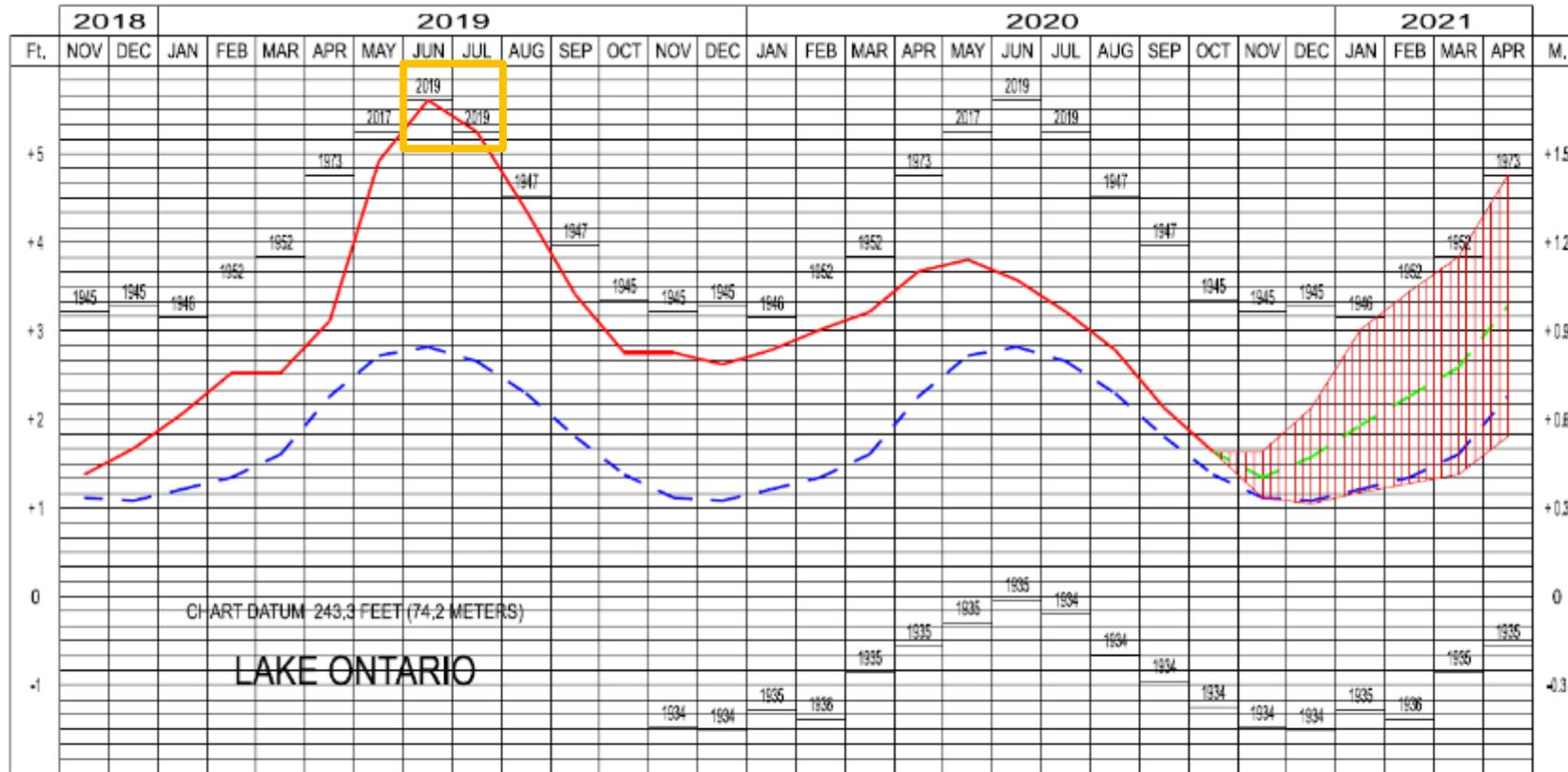
\*\* Average, Maximum and Minimum for period 1918-2019



# 6-MONTH FORECAST (NOVEMBER-APRIL)



### LAKE ONTARIO WATER LEVELS - NOVEMBER 2020



• 2019 Records

## Projected Levels (dashed green line):

- In period of seasonal decline
- October 2020 level was 13 inches below the October 2019 level.
- Forecast to be 15 to 22 inches below record high levels, but 3 to 12 inches above long-term average levels over the next 6 months.

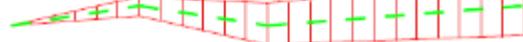
### LEGEND

LAKE LEVELS

RECORDED



PROJECTED



AVERAGE \*\*



MAXIMUM \*\*



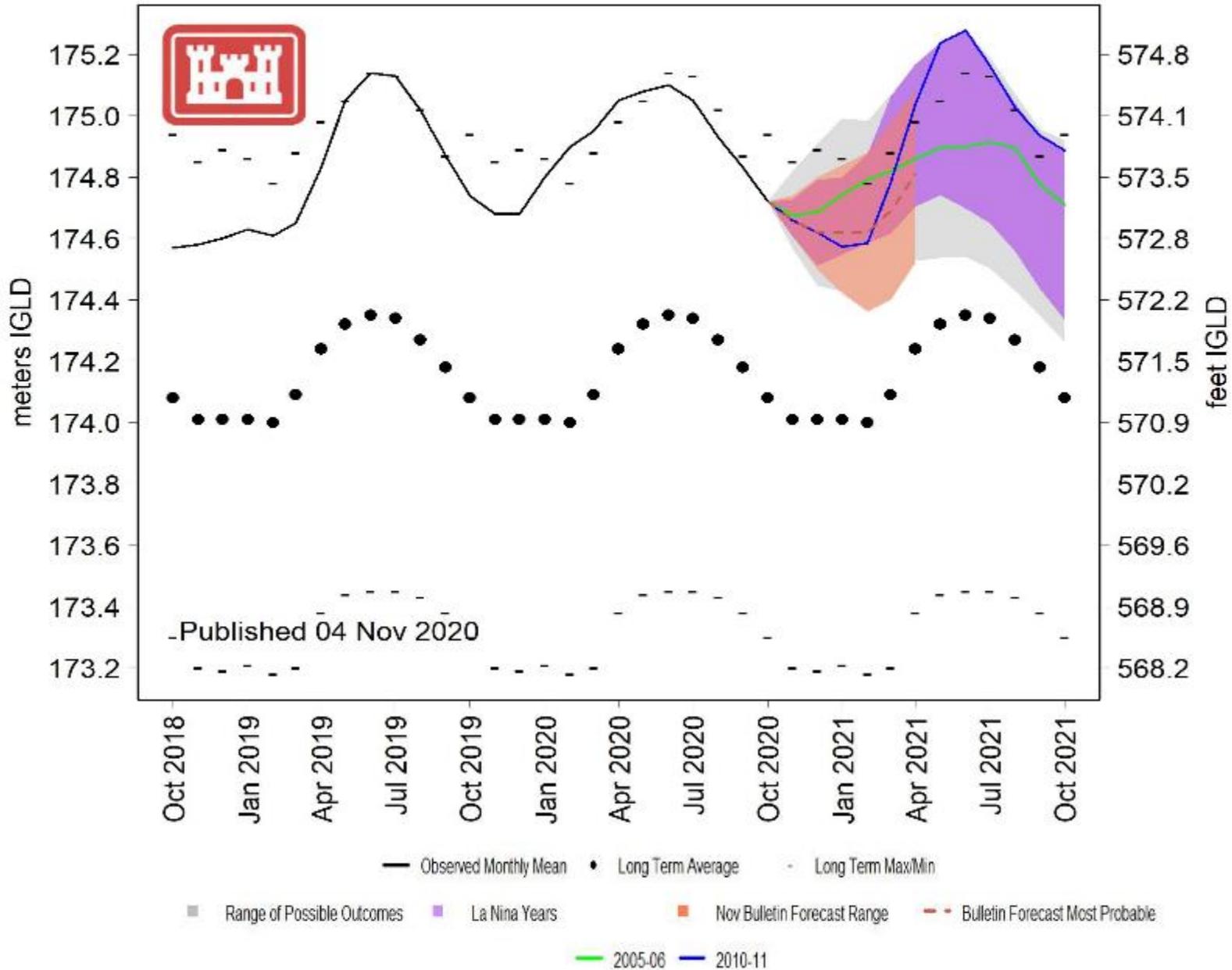
MINIMUM \*\*



\*\* Average, Maximum and Minimum for period 1918-2019



# Lake Erie Monthly Mean Water Levels



## Water Level Outlook (12 Months)

What if.....

Scenario driven based on historical supplies

<https://www.lre.usace.army.mil/Missions/Great-Lakes-Information/Great-Lakes-Water-Levels/Water-Level-Forecast/Water-Level-Outlook/>



# KEY POINTS



- Water level fluctuations are primarily driven by weather and hydrologic conditions.
- Water levels in 2020 have continued to be near or above record high levels on all lakes, except Lake Ontario.
- Regulation of outflows (St. Marys and St. Lawrence) cannot prevent extreme high or low water levels nor fully control water levels.
- Impacts of high water are expected to be felt throughout the rest of 2020 and into 2021, especially as active storms move across the region.



### Great Lakes High Water

Multiple record high levels were set on the Great Lakes in 2019 resulting in increased risks from erosion and coastal flooding. The U.S. Army Corps of Engineers, Detroit District, is committed to ensuring public safety while providing technical expertise and assistance during this time of high water around the Great Lakes.

During response operations, our Emergency Management Office conducts emergency operations to save lives and protect improved properties. In the event of natural disasters such as flooding, emergency permit procedures can be activated to expedite permits to reduce further damage, and protect life and property. The Corps of Engineers has authority to provide technical and planning assistance for flood plain management planning. The Great Lakes Hydraulics and Hydrology Office forecasts and monitors water levels of the Great Lakes and the conditions that lead to water level fluctuations.



### Helpful Links

- [Apply for a Permit](#)
- [Check Permit Application Status](#)
- [USACE, Detroit District, Role in Emergency Management](#)
- [International Lake Superior Board of Control](#)
- [Environment and Climate Change Canada](#)
- [Michigan Sea Grant](#)
- [NOAA - Great Lakes Environmental Research Laboratory](#)
- [Living on the Coast Booklet](#)
- [Sandbagging Instructional Video](#)

### Frequently Asked Questions

- Click Question to expand Answer +
  - Why are water levels on the Great Lakes so high? How long is this expected to last?
  - Does the U.S. Army Corps of Engineers have control over Great Lakes water levels?
  - My shoreline is eroding, can the U.S. Army Corps of Engineers help?
  - My property is flooding, can the U.S. Army Corps of Engineers help?
  - What type of shoreline project requires a permit?



- Emergency Management Office
- Hydraulics and Hydrology Office
- Outreach Office
- Regulatory Office
- Public Affairs Office

## Water Level Contacts

John Allis

313 226 2137

[John.t.allis@usace.army.mil](mailto:John.t.allis@usace.army.mil)

Deanna Apps

313 226 2979

[Deanna.Apps@usace.army.mil](mailto:Deanna.Apps@usace.army.mil)



# Belle Isle Park Infrastructure Update

November 20, 2020 Detroit, MI



## **Total Infrastructure Summary**

**9 - Construction**

**\*New Kick-off 12/10/2020**

**11 - Engineering**

**\* Pre-bid 11/16/2020**

**10 - Partner Agency coordination**

**(MDOT, OGD, FDR, DWSD, DTE, ATT & Verizon)**

**Belle Isle Park Infrastructure Update, November 2020**



# DTE WORK

The logo for DTE Energy Services, consisting of the letters 'DTE' in a bold, blue, sans-serif font.



- PHASE 1 – Construction of System Backbone  
- **COMPLETED**
- PHASE 2 – Construction of Infrastructure Loop  
- **COMPLETED**
- PHASE 3 – Individual Facility Site Excavation  
- **UNDERWAY**
- PHASE 4 – Conversion to DTE Infrastructure  
- **SCHEDULED FOR 2021**

Belle Isle Park Infrastructure Update, November 2020



## Lake Okonoka Habitat Restoration

- The Strand is open for traffic.
- Substantial Completion walk-through this week 11/16/2020
- Reviewed Opening Lake Okonoka Stop-log structure (NOAA, Friends of Detroit River, DNR-PRD and DNR-Fisheries)



*Stop log structure is in and final shoreline grading is underway*

**Belle Isle Park Infrastructure Update, November 2020**



# Sawmill Roof Replacement

- **Additional structural repairs found. Change Order approved.**
- **Project completion scheduled for January 2021.**



Figure 5. "Short Truss" north bearing; wood is deteriorating and crushing.



Figure 6. "Short Truss" south end, deterioration within span of bottom plies at highlighted areas.



## Iron Belle Trailhead & Trail Development

- Trail paved through beach entry drive.
- Contractor has preliminary stake along beach area.
- Additional testing of soil conditions for next section of trail is necessary.



*Phase 1 of IBT and Phase 2 of the Trailhead has been funded by Ralph C. Wilson, Jr. Foundation*

**Belle Isle Park Infrastructure Update, November 2020**



# Wet-Mesic Flatwoods



*Series of Ditches, swales and water control structures will improve hydrologic flow in flatwoods*

- **Pre – construction meeting scheduled for December 10<sup>th</sup>**
- **December 2020/January 2021 – Mobilize to site. Complete prep. work as possible in winter**
- **March 2021 – Nov/Dec 2021 – Main restoration activities completed – all plants/trees planted**
- **May – November 2022 – Vegetation Establishment Period**

**Belle Isle Park Infrastructure Update, November 2020**



# MDOT WORK

- **Paving Complete:**
- **Ed Deeb Way**
- **Central Ave.**
- **Oakway Access**
- **Picnic Way**
- **Inselruhe Ave. (road & sidewalks)**



**Belle Isle Park Infrastructure Update, November 2020**



# DWSD WORK

**Performing Sewer  
Condition Assessments**

Michigan Department of Natural Resources  
in partnership with the  
Detroit Water and Sewerage Department

 **QUESTIONS?**  
call 313•267•8000



The graphic is a rectangular box with a dark teal header and a light teal body. It contains the title "Performing Sewer Condition Assessments" in white, followed by the partnership information. At the bottom, it includes the City of Detroit Water & Sewerage Department logo, the text "QUESTIONS? call 313•267•8000", and the Michigan DNR logo.

## SCHEDULE & DELIVERABLES

- Work will complete assessment started under SAW Grant
- Sewer Cleaning and Asset Inventory – update GIS data
- Flow monitoring Spring 2021
- Create Sewer model network for CSO system & identify capacity deficiencies
- Capital Improvement Plan

Belle Isle Park Infrastructure Update, November 2020



# Cofferdam

- **Cofferdam and Lake Okonoka stop-log structure will be removed this fall**
- **Installed again March 2021 and Removed late 2021**
- **River level requiring control measures at ordinary high-water mark- 576.29 International Great Lakes Datum (IGLD),**



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